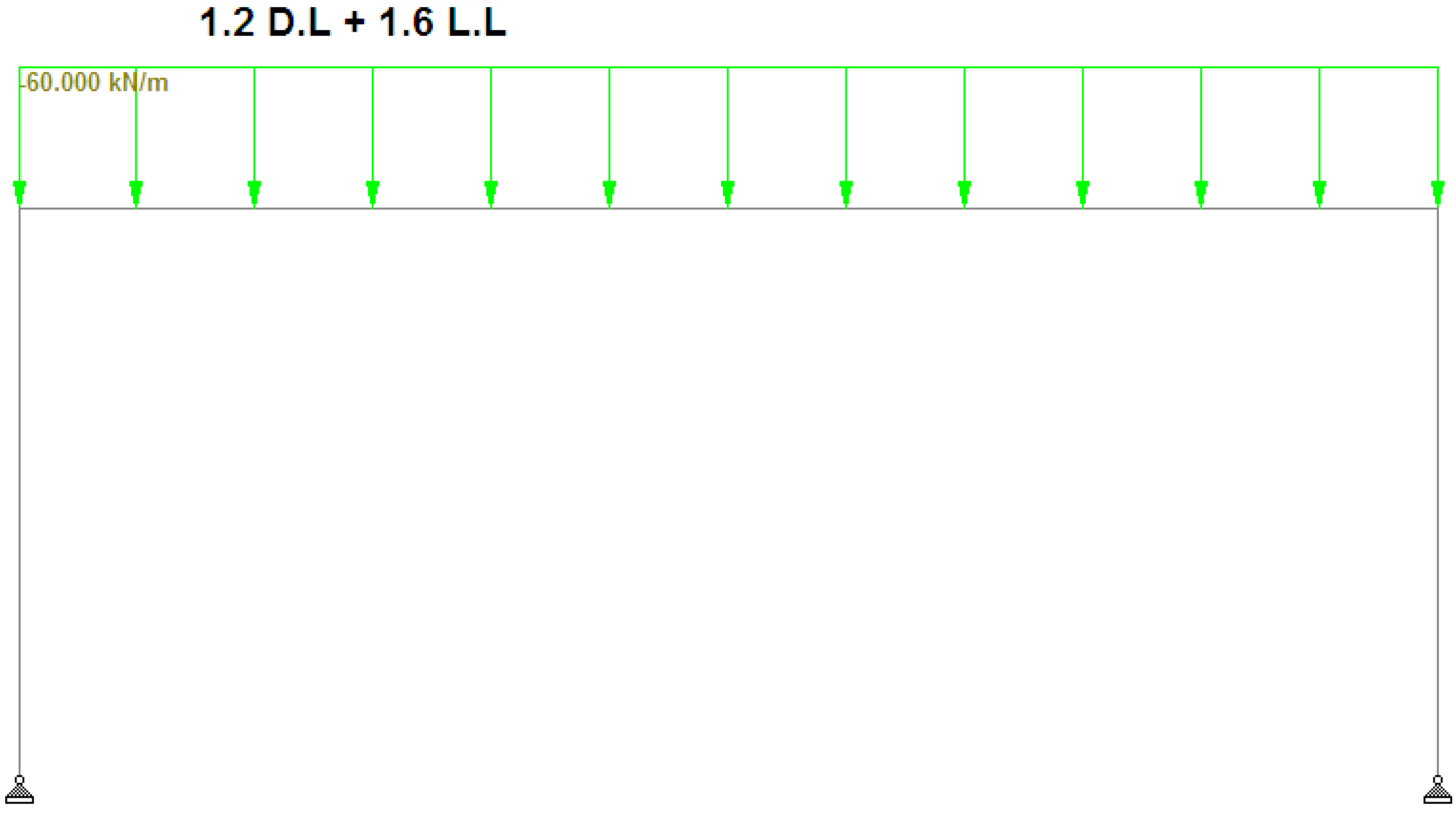
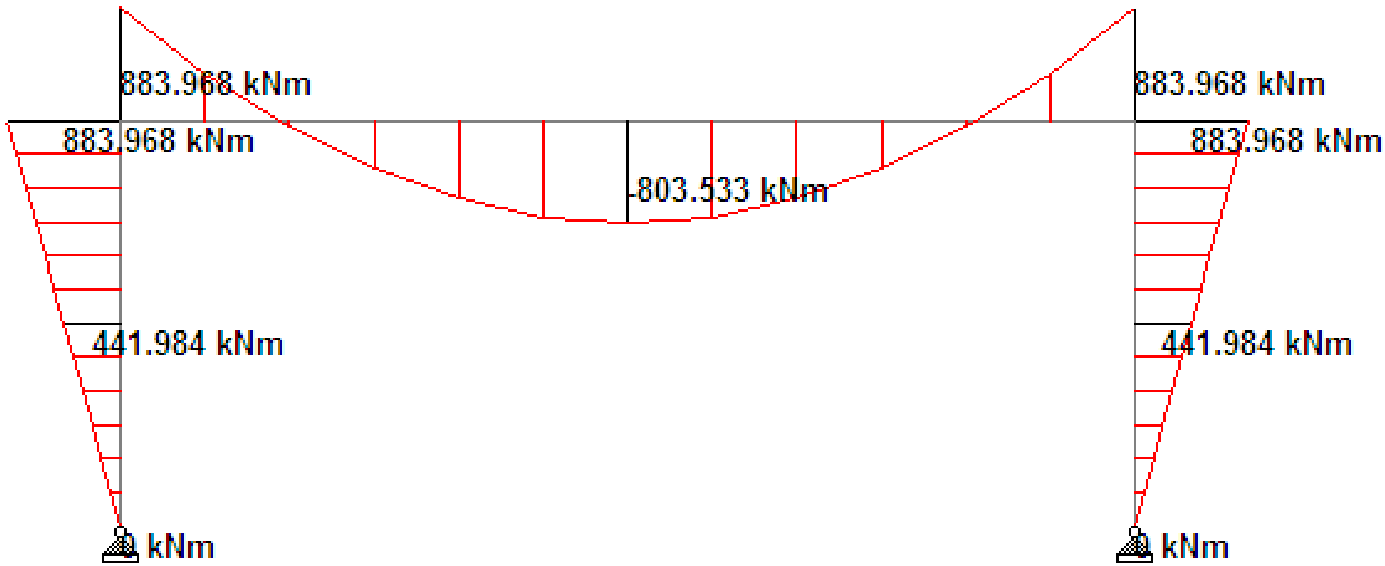
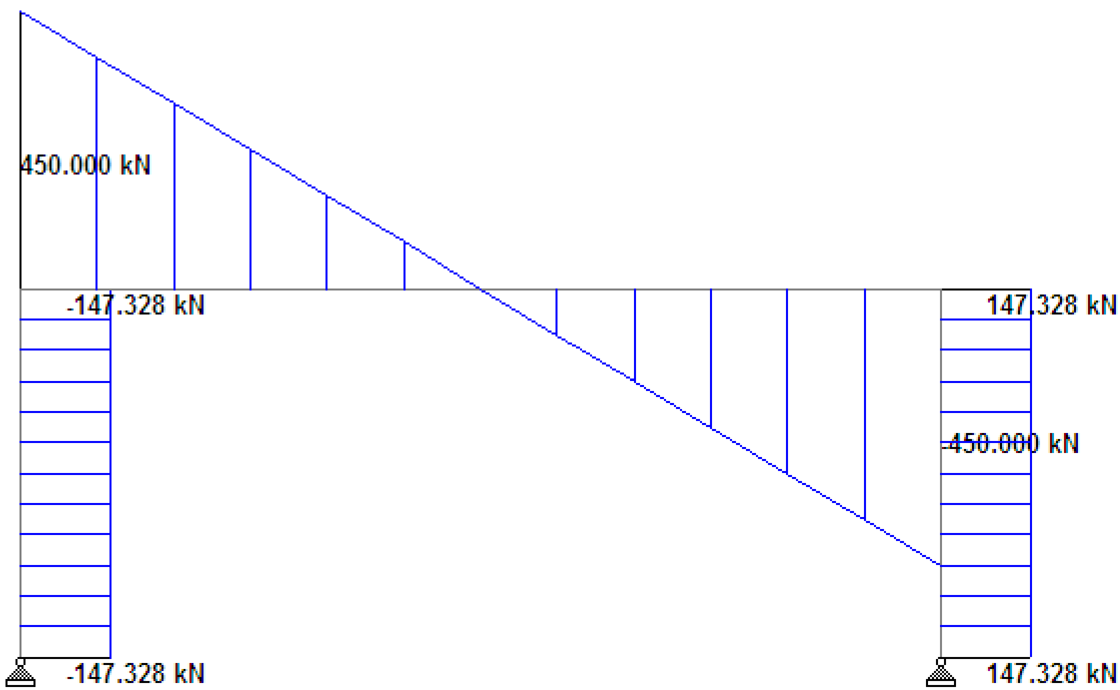
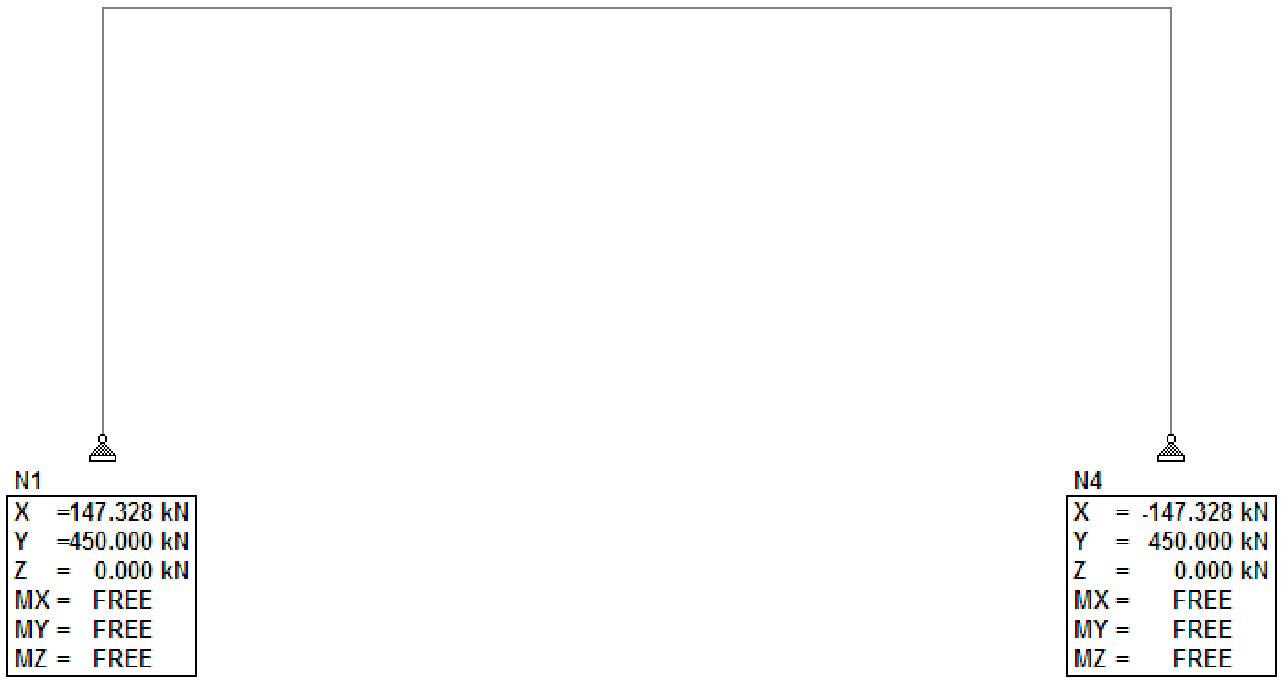
Frames

Two hinges frame Analysis

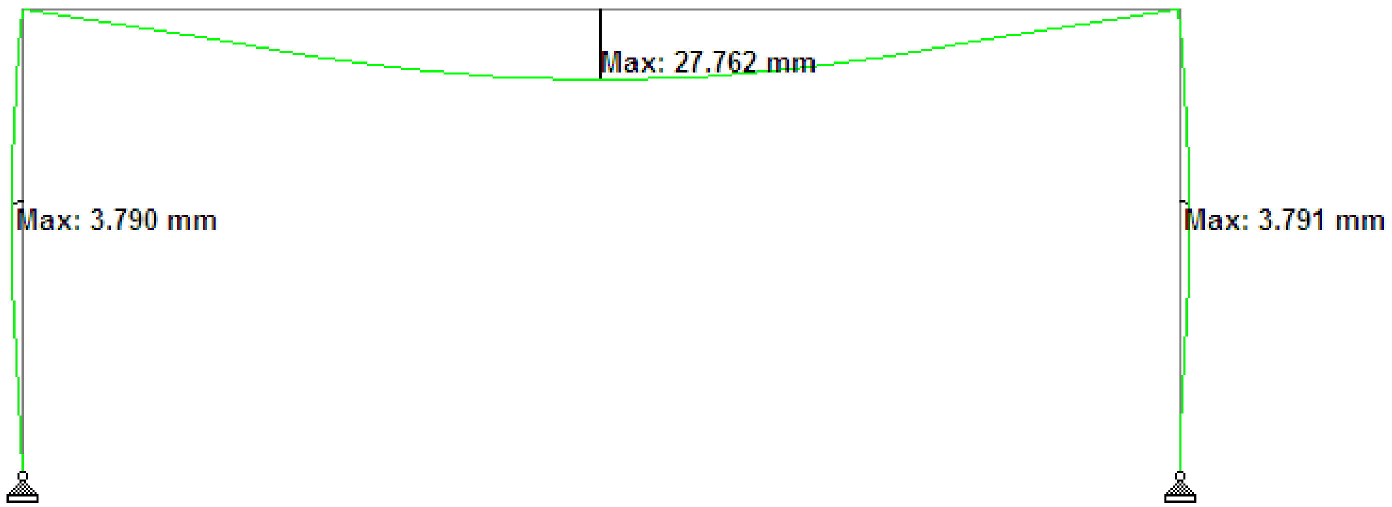



883.968 kNm
883.968 kNm
883.968 kNm
883.968 kNm
-803.533 kNm
441.984 kNm
441.984 kNm
0 kNm
0 kNm


450.000 kN
-147.328 kN
147.328 kN
-450.000 kN
-147.328 kN
147.328 kN

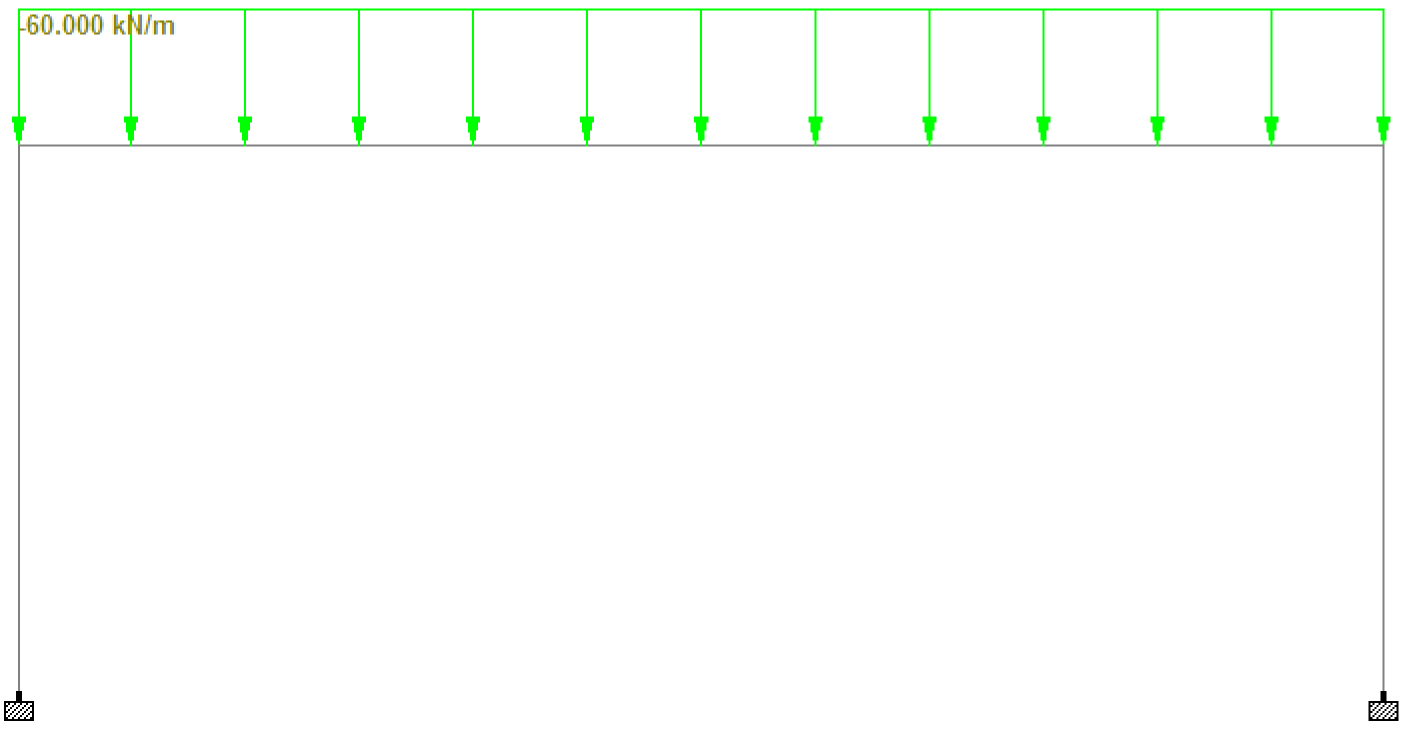


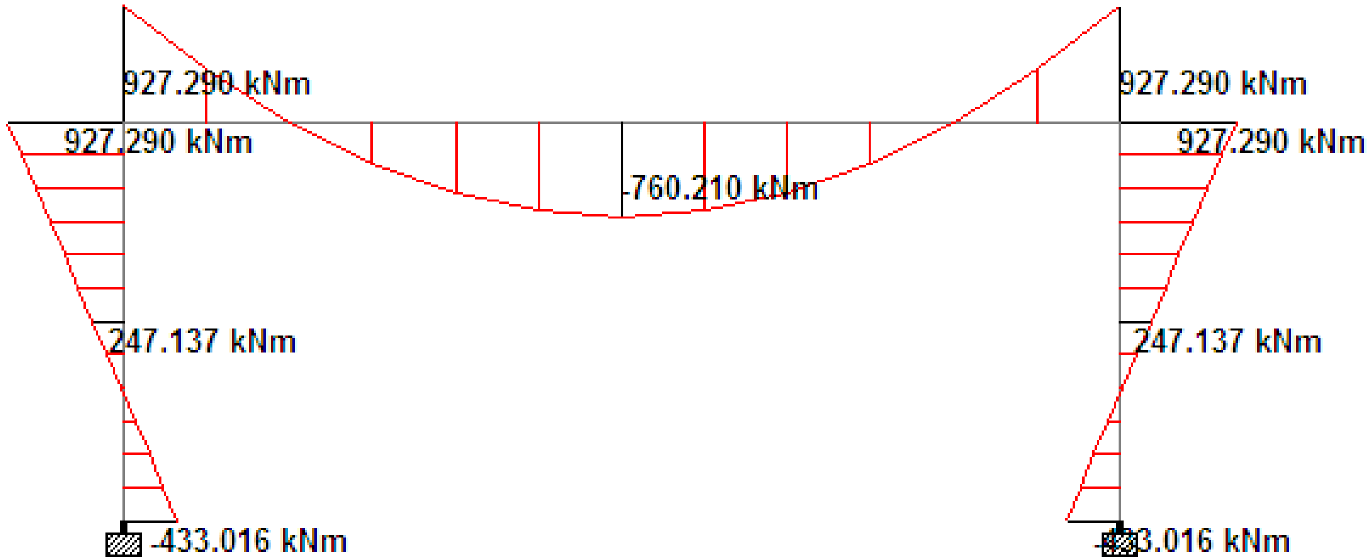
N1
X =147.328 kN
Y =450.000 kN
Z = 0.000 kN
MX = FREE
MY = FREE
MZ = FREE
N4
X = -147.328 kN
Y = 450.000 kN
Z = 0.000 kN
MX = FREE
MY = FREE
MZ = FREE

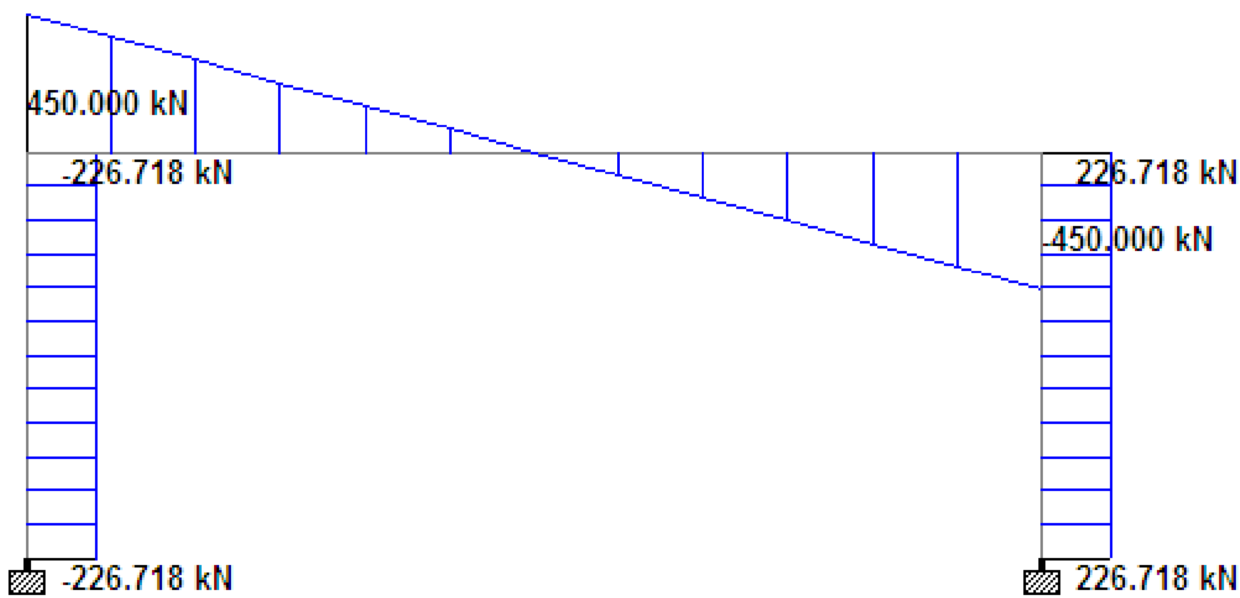


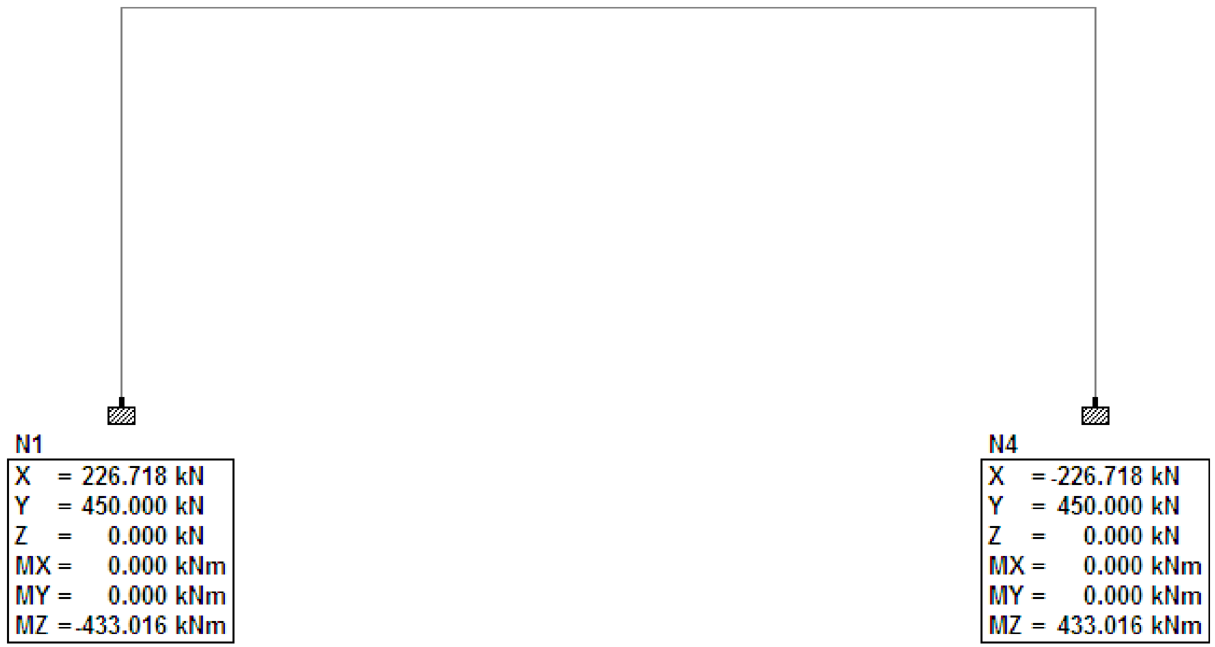
Max: 27.762 mm
Max: 3.790 mm
Max: 3.791 mm

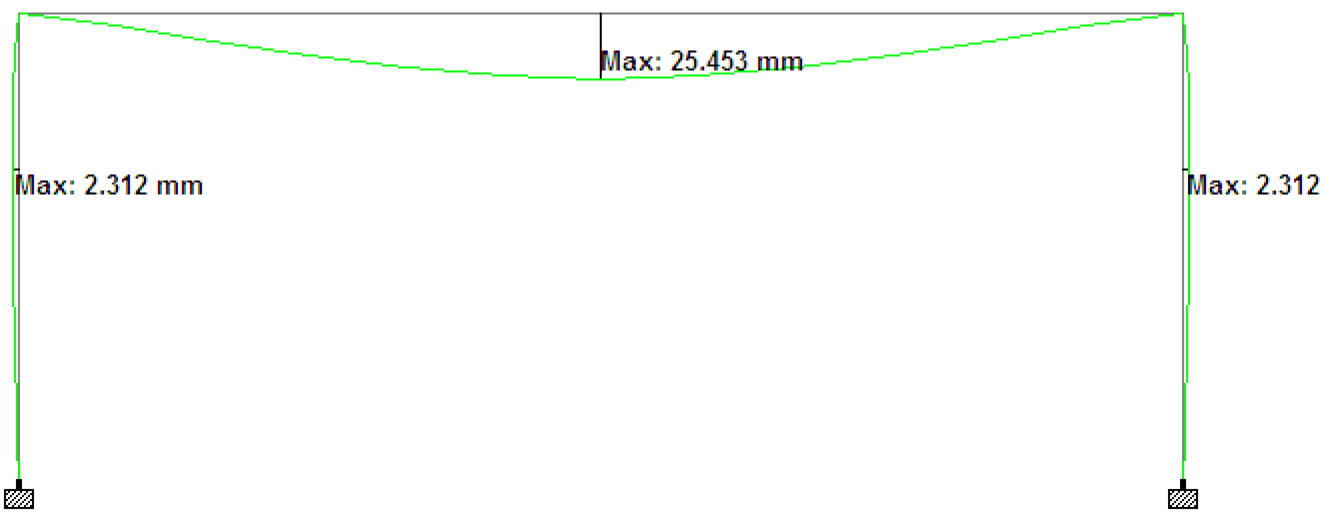
Fixed support frame Analysis



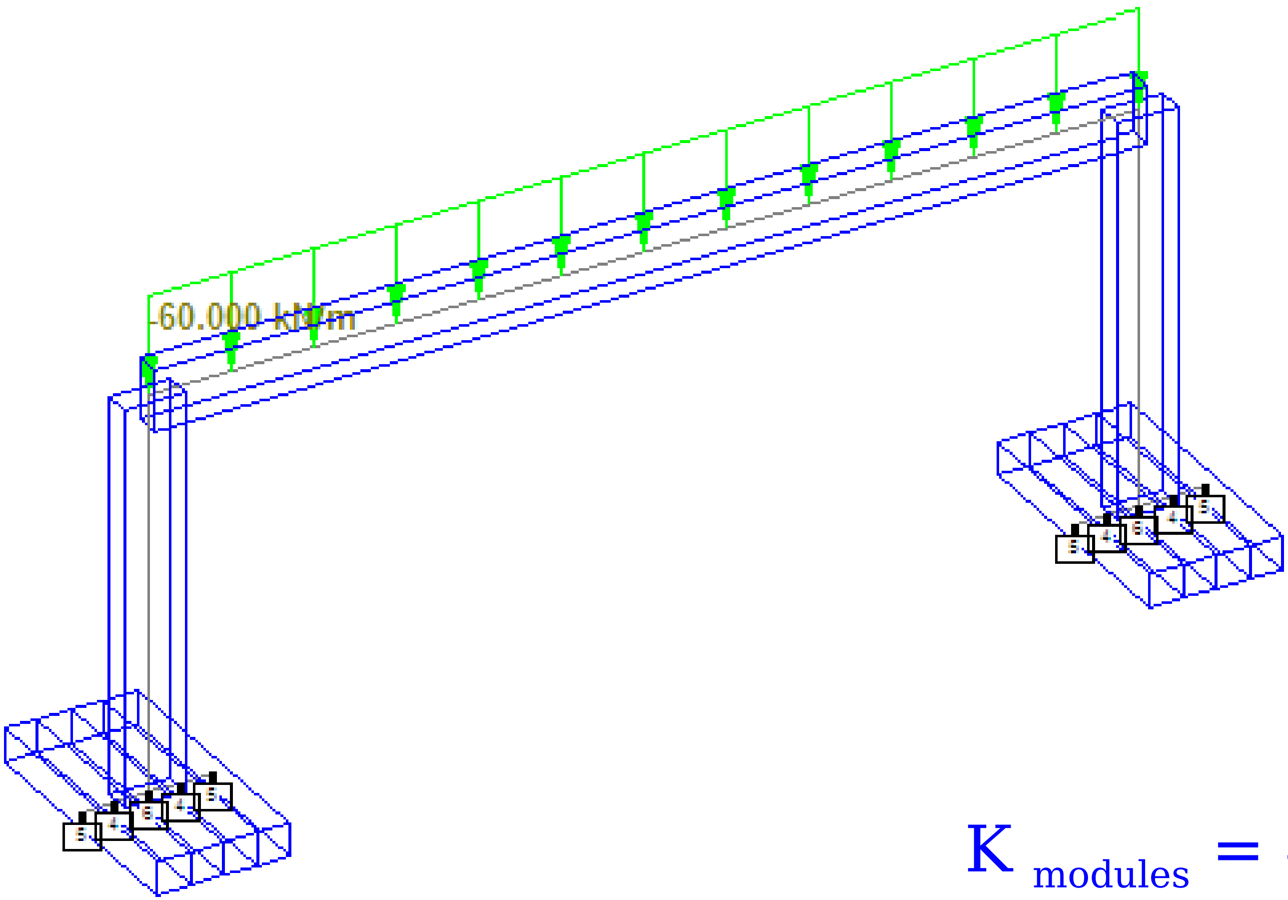

927.290 kNm
927.290 kNm
927.290 kNm
927.290 kNm
-760.210 kNm
247.137 kNm
247.137 kNm
-433.016 kNm
433.016 kNm


450.000 kN
-226.718 kN
226.718 kN
-450.000 kN
-226.718 kN
226.718 kN

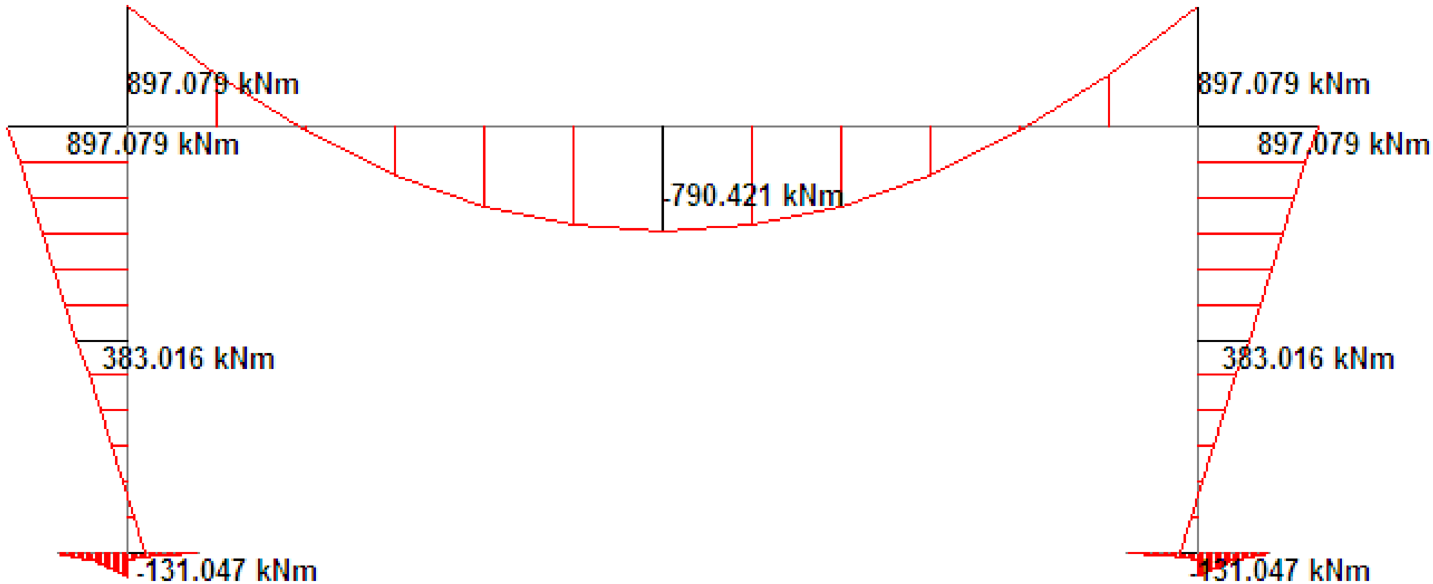

N1
X = 226.718 kN
Y = 450.000 kN
Z = 0.000 kN
MX = 0.000 kNm
MY = 0.000 kNm
MZ = -433.016 kNm
N4
X = -226.718 kN
Y = 450.000 kN
Z = 0.000 kN
MX = 0.000 kNm
MY = 0.000 kNm
MZ = 433.016 kNm

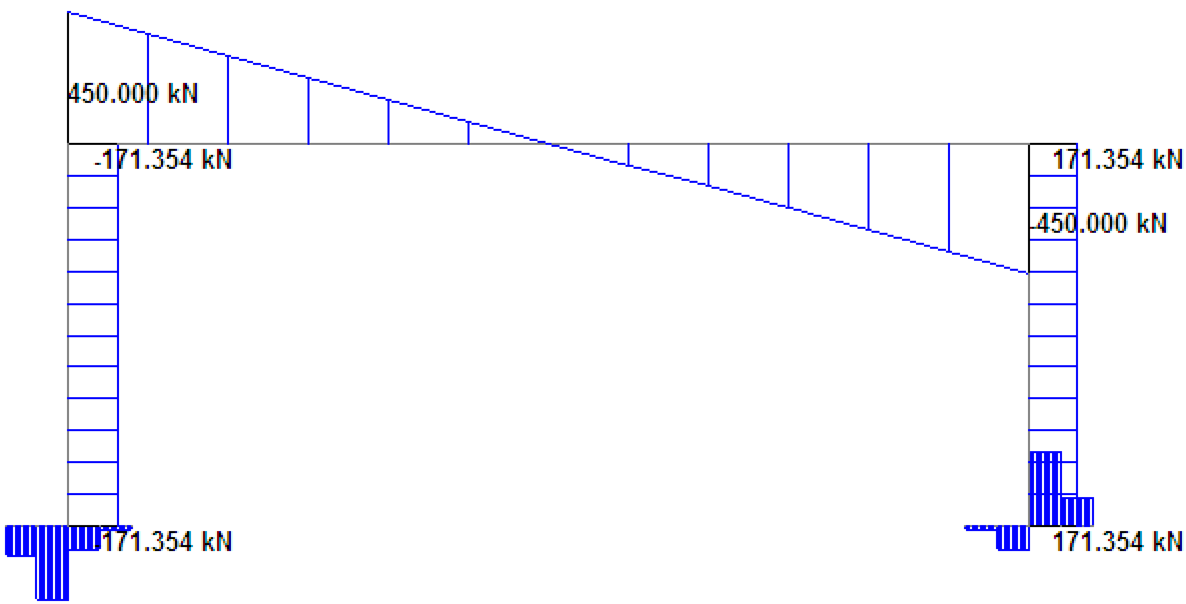

Max: 25.453 mm
Max: 2.312 mm
Max: 2.312

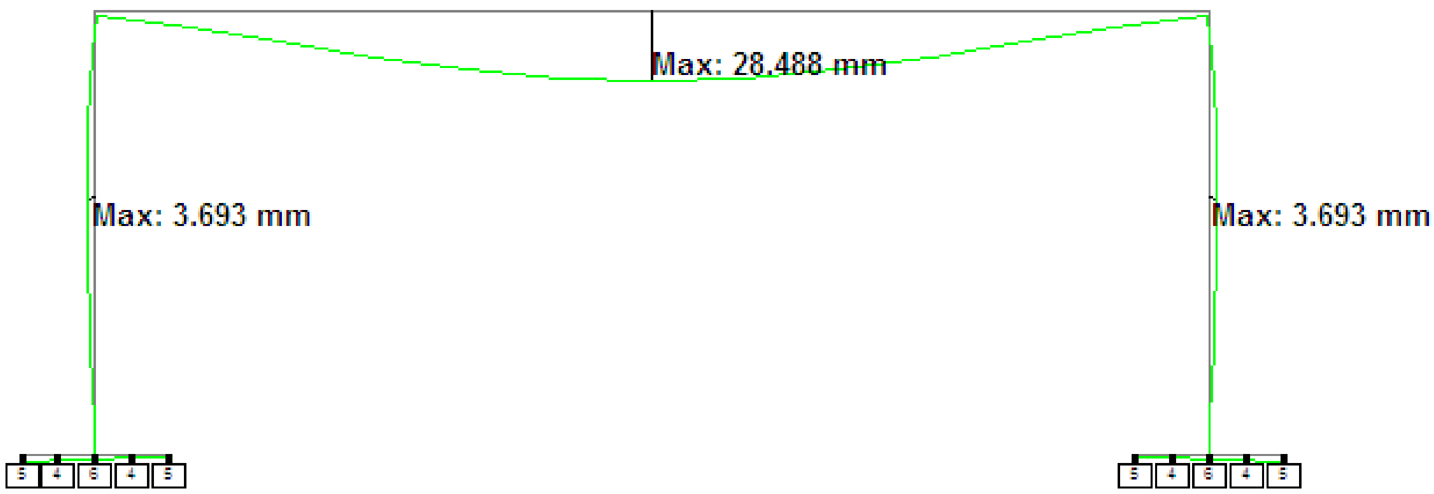
Spring support frame Analysis



$K_{modules} = 40000kN/m3$


897.079 kNm
897.079 kNm
897.079 kNm
897.079 kNm
-790.421 kNm
383.016 kNm
383.016 kNm
-131.047 kNm
-131.047 kNm

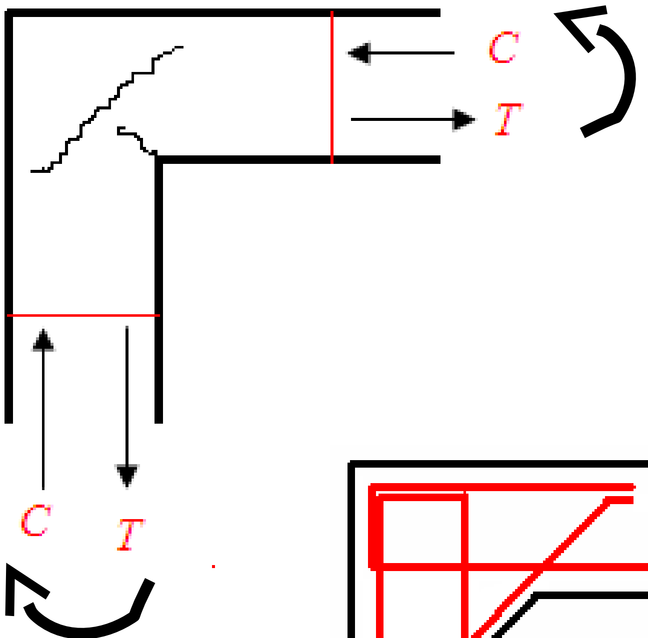

450.000 kN
-171.354 kN
171.354 kN
-450.000 kN
171.354 kN
171.354 kN

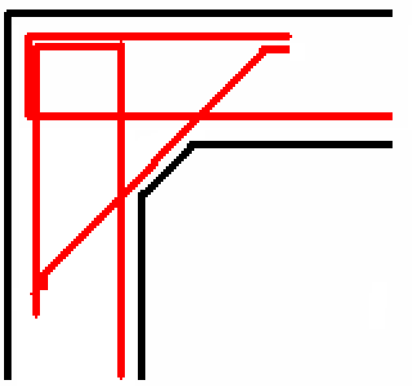


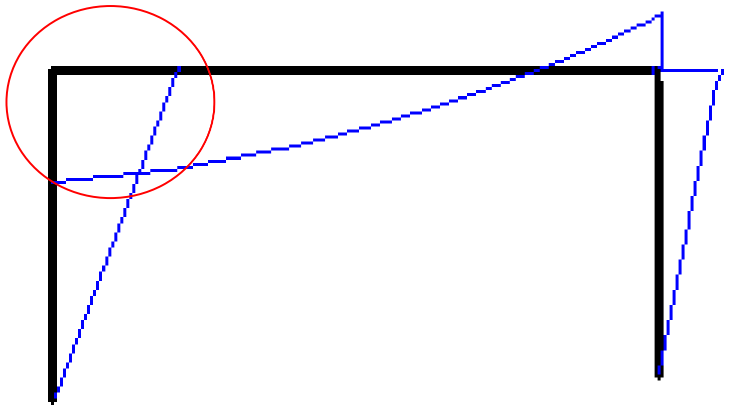
Max: 28.488 mm
Max: 3.693 mm
Max: 3.693 mm
5
4
6
4
5
5
4
6
4
5

Frame Joints

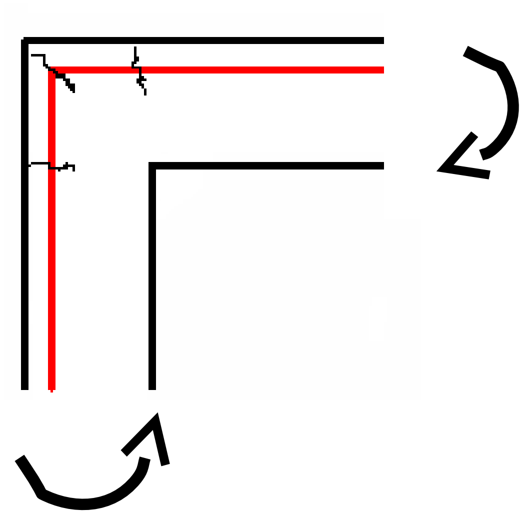
Corner Joint

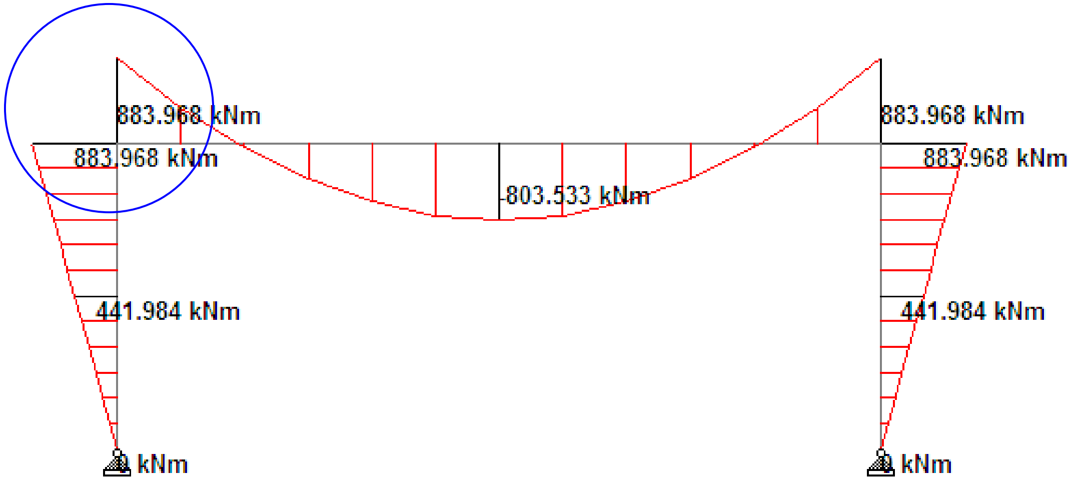




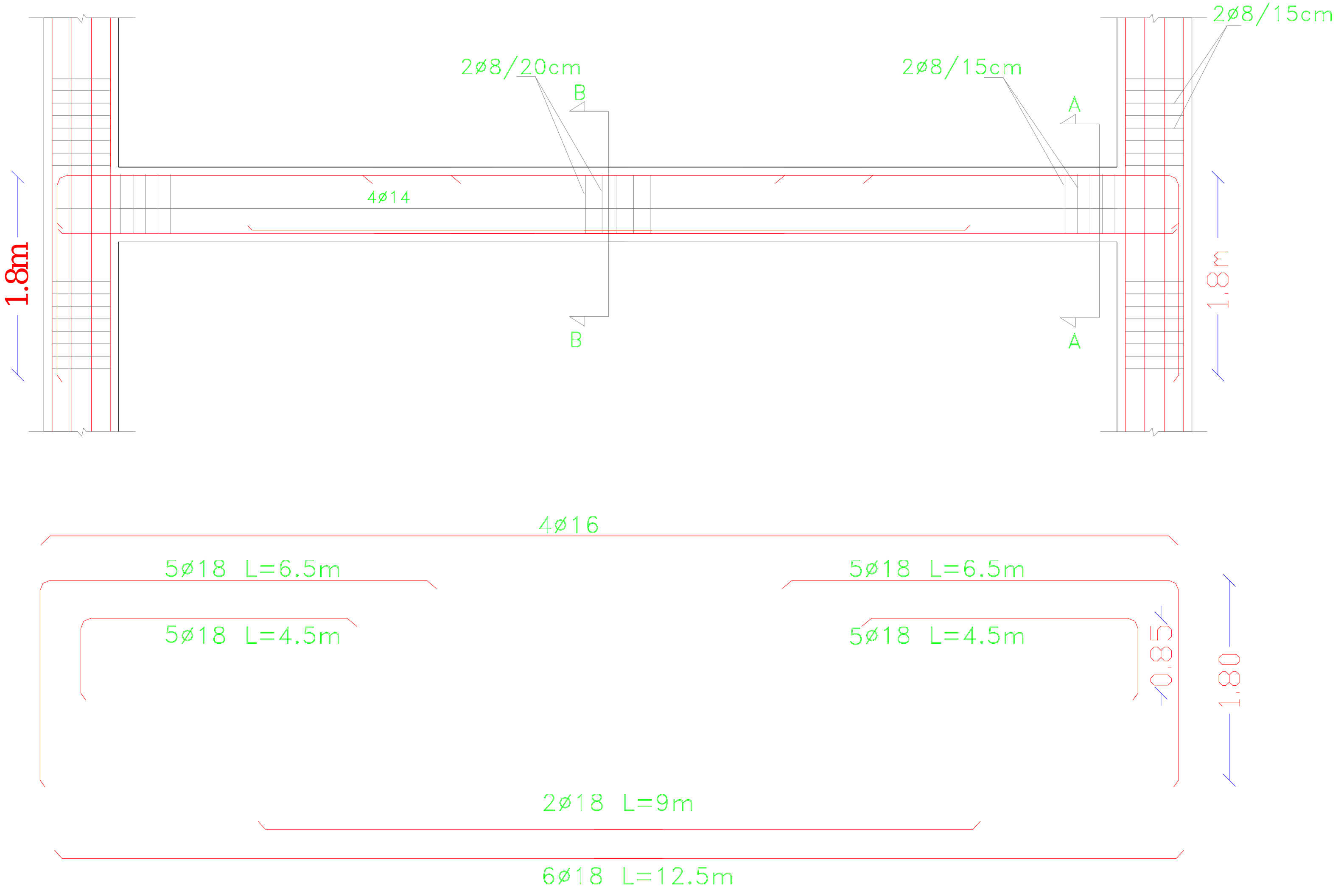


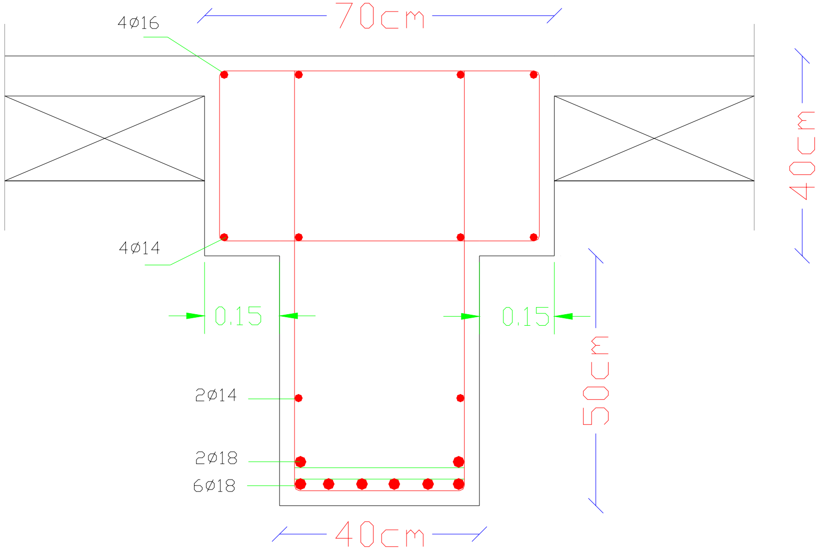
Closed Joint



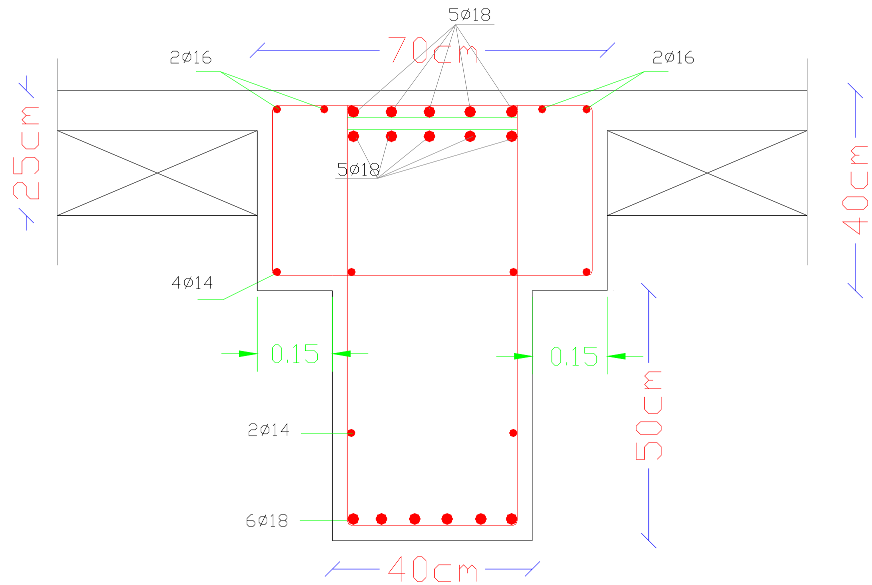


Drawing details





Sec B-B i



Sec A-A